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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

31862-000077	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)			
PCT/US02/40058	17 December 2002 (17.12.2002)	20 December 2001 (20.12.2001)			
International Patent Classification (IPC) or national classification and IPC					
IPC(7): G06F 15/16 and US Cl.: 709/20	8, 223, 224; 399/8; 714/4				
Applicant					
QUESTRA CORPORATION					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of Sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of 2sheets.					
3. This report contains indications relating to the following items:  I Basis of the report  II Priority  III Non-establishment of report with regard to novelty, inventive step and industrial policy inventive step.  IV Lack of unity of invention					
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II Priority		VERSIA: "H			
III Non-establishment of report with regard to novelty, inventive step and industrial applications		velty, inventive step and industrial a plic bility			
IV Lack of unity of invention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited		·			
VII Certain defects in the international application					
VIII Certain observations on the international application					
Date of submission of the demand	Date	of completion of this report			
14 July 2003 (14.07.03)	10 Ju	10 June 2004 (10.06.2004)			
Name and mailing address of the IPEA/	US Autho	Authorized officer			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	Will	William C. Vaughn, Jr.			
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (703) 305-9700			
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July 1998)					

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application	No.
PCT/US02/40058	

I.	Basi	s of the report						
1.	With	regard to the elements of the international application:*						
	$\boxtimes$	the international application as originally filed.						
	$\boxtimes$	the description:						
		pages 1-20 as originally filed						
		pages NONE , filed with the demand						
	<u> </u>	pages NONE, filed with the letter of						
	$\boxtimes$	the claims:						
		pages NONE, as originally filed						
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand						
		pages 21-23 , filed with the letter of 21 May 2004						
	$\square$	the drawings:						
		pages 1-6, as originally filed						
		pages NONE , filed with the demand						
		pages NONE , filed with the letter of						
		the sequence listing part of the description:						
		pages NONE , as originally filed						
		pages NONE, filed with the demand						
_	TT 71.4	pages NONE , filed with the letter of						
2.	Will	regard to the language, all the elements marked above were available or furnished to this Authority in the large in which the international application was filed, unless otherwise indicated under this item.						
		e elements were available or furnished to this Authority in the following language which is:						
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
	Ħ	the language of publication of the international application (under Rule 48.3(b)).						
	Ħ	the language of the translation furnished for the purposes of international preliminary examination(under Rules						
	Ш	55.2 and/or 55.3).						
3.		regard to any nucleotide and/or amino acid sequence disclosed in the international application, the						
	inter	national preliminary examination was carried out on the basis of the sequence listing:						
	Ц	contained in the international application in printed form.						
	Ц	filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the						
	_	international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing						
	K 2	has been furnished.						
4.	$\boxtimes$	The amendments have resulted in the cancellation of:						
		the description, pages none						
		the claims, Nos. none						
		the drawings, sheets/fig none						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go						
٥.	ш	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
*	Repla	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in						
this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.								
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US02/40058

v.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

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1. STATEMENT		
Novelty (N)	Claims NONE	YES
	Claims 1-31	NO
Inventive Step (IS)	Claims none	YES
	Claims 1-31	NO
Industrial Applicability (IA)	Claims 1-31	YES
	Claims NONE	NO

#### 2. CITATIONS AND EXPLANATIONS

Claims 1-31 lacks an inventive step under PCT Article 33(3) as being obvious over Levine et al. (Levine), U.S. Patent No. 5,974,234.

Regarding claim 1, Levine discloses an apparatus for connecting a remote machine to a central system by way of a network comprising: a message generator for creating an application layer message document including a unique machine name and password combination in a hypertext format suitable for transmission over the network, the message comprising information identifying the type of machine; a receiver for receiving and storing a unique identifier, the message generator subsequently creating machine using the unique identifier [see Col. 8, lines 5-55]. However, Levine does not explicitly disclose a central system. Thus, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made for Levine to have included a central system to transmit to a receiver for receiving and storing a unique identifier.

Regarding claim 2, Levine discloses in which the network is a TCP/IP network (This feature is well known in the art).

Regarding claim 3, Levine discloses in which the network is a wireless network (This feature is well known in the art).

Regarding claim 4, Levine discloses in which the connection is established through a gateway device that provides protocol or address translation (well known in the art).

Regarding claims 5-31, the limitations of these claims are considered well known in the art as well as being taught within the figures of Levine.

Claims 1-31meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

US 5,974,234 A (LEVINE et al) 26 OCTOBER 1999, ABSTRACT, COL. 7, LINES 1-67 AND COL. 8, LINES 1-67.

Form PCT/IPEA/409 (Box V) (July 1998)

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#### **CLAIMS**

1. Apparatus for connecting a remote machine to a central system by way of a public network comprising:

a message generator for creating an application layer message document including a unique machine name and password combination in a hypertext format suitable for transmission over the network, the message comprising information identifying the machine;

a receiver for receiving and storing a response from a central system, the message generator subsequently creating messages using the unique identifier.

- 2. The apparatus of claim 1 in which the network is a TCP/IP network.
- 3. The apparatus of claim 1 in which the network is a wireless network.
- 4. The apparatus of claim 1 in which the connection is established through a gateway device that provides protocol or address translation.
- 5. The apparatus of claim 1 comprising memory in the central system for storing the unique machine name and password and information identifying the type of machine.
  - 6. The apparatus of claim 1 in which the message is a registration message.
- 7. The apparatus of claim 6 in which the registration message includes: identifying information; information on the type of asset (e.g. Manufacturer, Product, Model, Version); network address and accessibility.
- 8. The apparatus of claim 6 comprising memory for storing a token indicating that the machine is registered, and inhibiting subsequent sending of registration messages.
- 9. The apparatus of claim 6 in which the registration message includes a non-unique identifier and the response from the server includes a unique identifier to be used by the asset in subsequent messages.
- 10. Apparatus for connecting a remote machine to a central system comprising: a message generator for sending a registration message to a central system, the registration message including a unique identifier;

memory for storing a schedule;

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a scheduler for periodically activating the message generator according to the stored schedule;

a receiver, activated for a predetermined time after the message generator is activated for receiving messages from the central system.

- 11. The apparatus of claim 9 comprising a receiver for receiving an acknowledgement of the registration message and storing a token indicating that the machine is registered.
- 12. The apparatus of claim 11 comprising a controller for inhibiting the sending of subsequent registration messages in response to the token.
- 13. The apparatus of claim 10 in which the receiver receives a schedule from a central system and stores the schedule in the memory.
- 14. The apparatus of claim 13 in which the receiver receives a schedule from a central system in response to a registration message.
- 15. The apparatus of claim 10 in which the remote machine is a gateway device that provides protocol or address translation to further machines.
- 16. The apparatus of claim 15 in which the gateway maintains the schedule and interacts with the further machines as required to satisfy the schedule.
- 17. Apparatus for connecting a remote machine to a central system through a firewall that prevents incoming connections to the machine comprising:

a message generator for sending a registration message to a central system; memory for storing a schedule;

- a scheduler for periodically activating the message generator according to the stored schedule for creating a temporary two way connection to a central system.
- The apparatus of claim 17 comprising a listener responsive to messages from 18. the central system.
- 19. The apparatus of claim 18 in which the apparatus receives a schedule from the central system and stores the schedule in the memory.

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20. Apparatus for connecting a remote machine to a central system through a system that establishes solely transient connections to the machine and the central system comprising:

a message generator for sending a registration message to a central system; memory for storing a schedule;

a scheduler for periodically activating the message generator according to the stored schedule for sending messages to the central system, each message including a message identifier;

a listener receiving messages from the central system, each received message including a message identifier corresponding to the message identifier of one sent message

21. Apparatus for connecting a remote machine to a central system through a system that establishes solely transient connections to the machine and the central system comprising:

a message generator for sending a registration message to a central system;

a listener receiving messages from the central system, each received message including a message identifier

the message generator sending responsive messages to the central system, each responsive message including a message identifier corresponding to the message identifier of one received message;

22. A method of communicating between a server and an asset comprising the steps of:

queuing one or more request messages on the server;

logging the one or more request messages on the server;

sending a polling message from the asset to the server;

sending one of the one or more request messages to the asset in response to the polling message;

sending a responsive message from the asset to the server;

receiving the responsive message at the server and reconciling the responsive message with the logged request;

continuing to send request messages to the asset until the queue is empty.

23. The method of claim 22 in which the step of sending a polling message comprises sending polling messages at a predetermined interval.